Connecting via Winsock to STN

```
Welcome to STN International! Enter x:x
LOGINID:ssspta1611txm
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
* * * * * * * * *
                     Welcome to STN International
NEWS
                 Web Page URLs for STN Seminar Schedule - N. America
                 "Ask CAS" for self-help around the clock
NEWS
                 PCTGEN now available on STN
NEWS
         Feb 24
         Feb 24 TEMA now available on STN
NEWS 4
NEWS 5 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 6 Feb 26 PCTFULL now contains images
         Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 7
NEWS 8
         Mar 24 PATDPAFULL now available on STN
         Mar 24 Additional information for trade-named substances without
NEWS 9
                 structures available in REGISTRY
NEWS 10
         Apr 11
                 Display formats in DGENE enhanced
NEWS 11
         Apr 14
                 MEDLINE Reload
NEWS 12
         Apr 17
                 Polymer searching in REGISTRY enhanced
NEWS 13
         Jun 13
                 Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 14 Apr 21
                 New current-awareness alert (SDI) frequency in
                 WPIDS/WPINDEX/WPIX
NEWS 15
         Apr 28
                 RDISCLOSURE now available on STN
NEWS 16
         May 05
                 Pharmacokinetic information and systematic chemical names
                 added to PHAR
NEWS 17
         May 15
                 MEDLINE file segment of TOXCENTER reloaded
         May 15
                 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 18
NEWS 19
         May 19
                 Simultaneous left and right truncation added to WSCA
NEWS 20
         May 19
                 RAPRA enhanced with new search field, simultaneous left and
                 right truncation
NEWS 21
         Jun 06
                 Simultaneous left and right truncation added to CBNB
         Jun 06
                 PASCAL enhanced with additional data
NEWS 22
         Jun 20
                 2003 edition of the FSTA Thesaurus is now available
NEWS 23
NEWS 24 Jun 25 HSDB has been reloaded.
NEWS 25 Jul 16 Data from 1960-1976 added to RDISCLOSURE
NEWS 26 Jul 21 Identification of STN records implemented
         Jul 21 Polymer class term count added to REGISTRY
NEWS 27
                 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
NEWS 28
         Jul 22
                 Right Truncation available
              April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
NEWS EXPRESS
```

Enter NEWS followed by the item number or name to see news on that

General Internet Information

Welcome Banner and News Items

MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

STN Operating Hours Plus Help Desk Availability

CAS World Wide Web Site (general information)

Direct Dial and Telecommunication Network Access to STN

NEWS HOURS

NEWS INTER

NEWS LOGIN

NEWS PHONE

NEWS WWW

specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 11:22:56 ON 30 JUL 2003

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:23:30 ON 30 JUL 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 JUL 2003 HIGHEST RN 557055-78-4 DICTIONARY FILE UPDATES: 29 JUL 2003 HIGHEST RN 557055-78-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

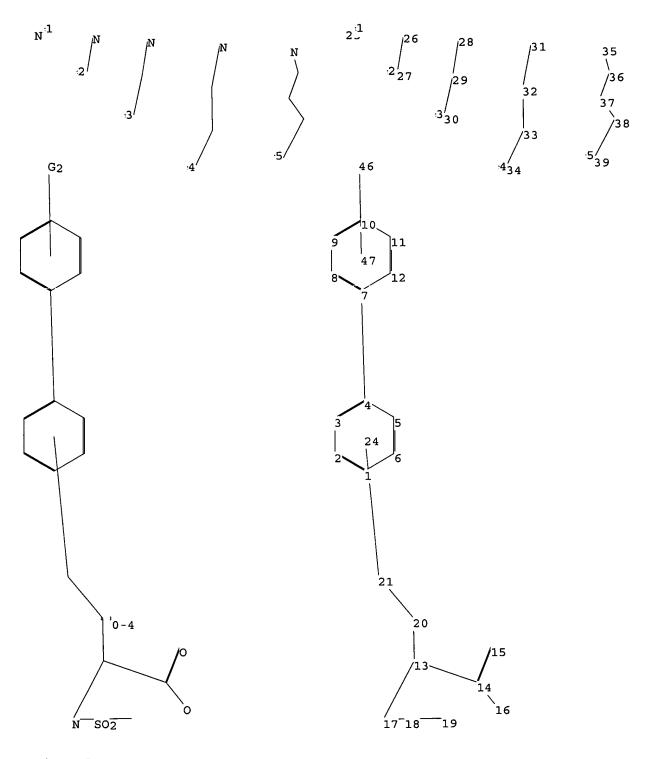
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>

Uploading C:\Program Files\Stnexp\Queries\09868305.str



chain nodes :
13 14 15 16 17 18 20 21 25 26 27 28 29 30 31 32 33 34 35 36 37
38 39 46
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
ring/chain nodes :
19

Page 3

١

chain bonds :
4-7 13-14 13-20 13-17 14-15 14-16 17-18 18-19 20-21 26-27 28-29 29-30 31-32 32-33 33-34 35-36 36-37 37-38 38-39 ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 exact/norm bonds :
13-17 14-15 14-16 17-18 26-27 28-29 31-32 35-36 exact bonds :
4-7 13-14 13-20 18-19 20-21 29-30 32-33 33-34 36-37 37-38 38-39 normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G2: [*1], [*2], [*3], [*4], [*5]

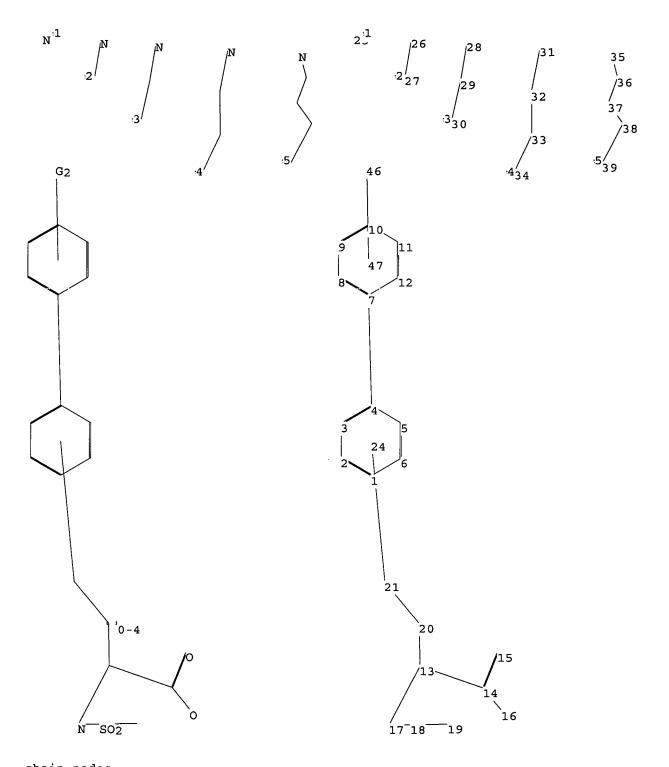
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 46:CLASS 47:CLASS

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09868305.str



chain nodes : 13 14 15 16 17 38 39 46 18 20 21 25 26 27 28 29 30 31 32 33 34 35 36 37 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 ring/chain nodes :

chain bonds : 4-7 13-14 13-20 13-17 14-15 14-16 17-18 18-19 20-21 26-27 28-29 29-30 31-32 32-33 33-34 35-36 36-37 37-38 38-39 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 exact/norm bonds : 13-17 14-15 14-16 17-18 26-27 28-29 31-32 35-36 exact bonds : 4-7 13-14 13-20 18-19 20-21 29-30 32-33 33-34 36-37 37-38 38-39 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 G2:[*1],[*2],[*3],[*4],[*5] Match level : 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 46:CLASS 47:CLASS L2 STRUCTURE UPLOADED => s 12SAMPLE SEARCH INITIATED 11:24:21 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 74 TO ITERATE 100.0% PROCESSED 74 ITERATIONS 15 ANSWERS SEARCH TIME: 00.00.01 FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 964 TO 1996 PROJECTED ANSWERS: 68 TO 532 15 SEA SSS SAM L2 L3=> d scan 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN L3 [1,1'-Biphenyl]-4-propanoic acid, 3'-[[(1E)-1-(cyclopropylamino)-2-IN nitroethenyl] amino] $-\alpha - [[(2,4,6-trimethylphenyl) sulfonyl] amino] -,$ (αS) - (9CI)C29 H32 N4 O6 S MF

Absolute stereochemistry.

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN $[1,1'-Biphenyl]-4-propanoic acid, 3'-[[2-(cyclopropylamino)-3,4-dioxo-1-cyclobuten-1-yl]amino]-\alpha-[[(2,4,6-trimethylphenyl)sulfonyl]amino]-, (<math>\alpha$ S)- (9CI)

MF C31 H31 N3 O6 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN [1,1'-Biphenyl]-4-propanoic acid, α -[[2-(methoxycarbonyl)phenyl]sulfonyl]amino]-3'-[[[(3-pyridinylmethyl)amino]carbonyl]amino]- (9CI)

MF C30 H28 N4 O7 S

$$\begin{array}{c|c}
 & CO_2H \\
 & S-NH-CH-CH_2
\end{array}$$

$$\begin{array}{c|c}
 & NH-C-NH-CH_2
\end{array}$$

$$\begin{array}{c|c}
 & NH-C-NH-CH_2
\end{array}$$

$$\begin{array}{c|c}
 & NH-C-NH-CH_2
\end{array}$$

$$\begin{array}{c|c}
 & NH-C-NH-CH_2
\end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

- L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
- IN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[(cyclopropylamino)carbonyl]amino]- α -[(2-propenylsulfonyl)amino]-, (α S)- (9CI)
- MF C22 H25 N3 O5 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
- IN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[(6-methoxy-2-benzothiazolyl)amino]carbonyl]amino]-α-[((2,4,6-trimethylphenyl)sulfonyl]amino]-, (αS)- (9CI)
- MF C33 H32 N4 O6 S2

Absolute stereochemistry.

PAGE 1-A

Me_

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 12

SAMPLE SEARCH INITIATED 11:28:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 74 TO ITERATE

100.0% PROCESSED 74 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 964 TO 1996

PROJECTED ANSWERS: 68 TO 532

L4 15 SEA SSS SAM L2

=> s 12 full

FULL SEARCH INITIATED 11:28:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1291 TO ITERATE

100.0% PROCESSED 1291 ITERATIONS 255 ANSWERS

SEARCH TIME: 00.00.01

L5 255 SEA SSS FUL L2

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 151.35 151.56

FILE 'CAPLUS' ENTERED AT 11:28:42 ON 30 JUL 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 30 Jul 2003 VOL 139 ISS 5 FILE LAST UPDATED: 29 Jul 2003 (20030729/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 15 L6 3 L5

=> 16 not wo-200035864?/pn
L6 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l6 not wo-200035864?/pn 1 WO-200035864?/PN (WO2000035864/PN) L7 2 L6 NOT WO-200035864?/PN

=> d 1-2 cbib pi hitstr

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

2002:107924 Document No. 136:167692 Preparation of new biphenyl and biphenyl-analogous compounds as integrin antagonists. Albers, Markus; Urbahns, Klaus; Vaupel, Andrea; Harter, Michael; Schmidt, Delf; Stelte-Ludwig, Beatrix; Gerdes, Christoph; Stahl, Elke; Keldenich, Jorg; Brueggemeier, Ulf; Lustig, Klemens (Germany). U.S. Pat. Appl. Publ. US 2002016461 A1 20020207, 256 pp., Division of U.S. Ser. No. 464,237. (English). CODEN: USXXCO. APPLICATION: US 2001-828514 20010406. PRIORITY: US 1998-PV172225 19981216; US 1999-464237 19991215. PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 2002016461 A1 20020207 US 2001-828514 20010406 US 6420396 B1 20020716 US 1999-464237 19991215

TT 276257-75-1P 276257-76-2P 276257-77-3P 276257-78-4P 276257-79-5P 276257-80-8P 276257-81-9P 276257-82-0P 276257-83-1P 276257-84-2P 276257-85-3P 276257-86-4P 276257-87-5P 276257-90-0P 276257-91-1P 276257-92-2P 276257-93-3P 276257-94-4P 276257-95-5P 276257-96-6P 276257-97-7P 276257-98-8P

09/868,305 Thomas McKenzie

7 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS

1996:445595 Document No. 125:137462 N,N'-bisformyl dityrosine is an in vivo precursor of the yeast ascospore wall. Briza, Peter; Kalchhauser, Hermann; Pittenauer, Ernst; Allmaier, Guenter; Breitenbach, Michael (Institut Genetik und Allemeine Biologie, Universitaet Salzburg, Salzburg, A-5020, Austria). European Journal of Biochemistry, 239(1), 124-131 (English) 1996. CODEN: EJBCAI. ISSN: 0014-2956. Publisher: Springer.

IT 179555-54-5P 179798-22-2P 179798-23-3P

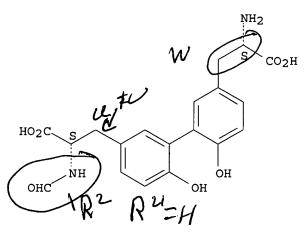
RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process)

 $(N,N'-bisformyl\ dityrosine\ is\ in\ vivo\ precursor\ of\ yeast\ ascospore\ wall)$

RN 179555-54-5 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid, α -amino- α '- (formylamino)-6,6'-dihydroxy-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 179798-22-2 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid, α-amino-α-(formylamino)-6,6'-dihydroxy-, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 179798-23-3 CAPLUS

09/868,305 Thomas McKenzie

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid, α,α' -bis(formylamino)-6,6'-dihydroxy- (9CI) (CA INDEX NAME)

IT 114137-09-6

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence)

 $(N,N'-bisformyl\ dityrosine\ is\ in\ vivo\ precursor\ of\ yeast\ ascospore\ wall)$

RN 114137-09-6 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid, α,α' -bis(formylamino)-6,6'-dihydroxy-, $(\alpha S,\alpha'S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

```
C:\Program Files\Stnexp\Queries\09868305.str
                                                     • 4 e 3
chain nodes :
```

```
1 2 3 4 5 6 7
                         10
                             11
                                 12
                                    13
                                        14
                                            15
                                               16 26 41
ring nodes : 27 28 29 30 31 32 33
                             34
                                 35
                                    36
                                        37
                                            38
ring/chain nodes :
   8 42
chain bonds:
   1-2 1-3 1-4 4-5 4-6 5-26 6-7 7-8 9-11 12-13 13-14 15-16 26-27 37-41 41-42
ring bonds :
   27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
exact/norm bonds :
   1-2 1-3 4-6 5-26 6-7 12-13 13-14 15-16 26-27 41-42
exact bonds:
   1-4 4-5 7-8 9-11 37-41
normalized bonds:
   27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
G1: [*1-*2], [*3-*4], [*5-*6], [*7-*8]
Match level:
   1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
   11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 26:CLASS 27:Atom 28:Atom
   29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom
```

41:CLASS 42:CLASS 46:CLASS

```
C:\Program Files\Stnexp\Queries\09868305.str
• 4 • 3
                                                         • 4 • 3
chain nodes :
```

```
1 2 3 4 5 6 7 9
                            10
                                11
                                    12
                                        13
                                            14
                                                 15
                                                     16 26 41
ring nodes : 27 28 29 30 31 32 33
                                34
                                    35
ring/chain nodes :
    8 42
chain bonds:
   1-2 1-3 1-4 4-5 4-6 5-26 6-7 7-8 9-11 12-13 13-14 15-16 26-27 37-41 41-42
ring bonds :
    27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
exact/norm bonds :
   1-2 1-3 4-6 5-26 6-7 12-13 13-14 15-16 26-27 41-42
exact bonds :
   1-4 4-5 7-8 9-11 37-41
normalized bonds:
   27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
G1: [*1-*2], [*3-*4], [*5-*6], [*7-*8]
Match level:
    1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
    11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 26:CLASS 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 33:Atom 33:Atom 36:Atom 37:Atom 38:Atom
```

41:CLASS 42:CLASS 43:CLASS

```
C:\Program Files\Stnexp\Queries\09868305.str
```

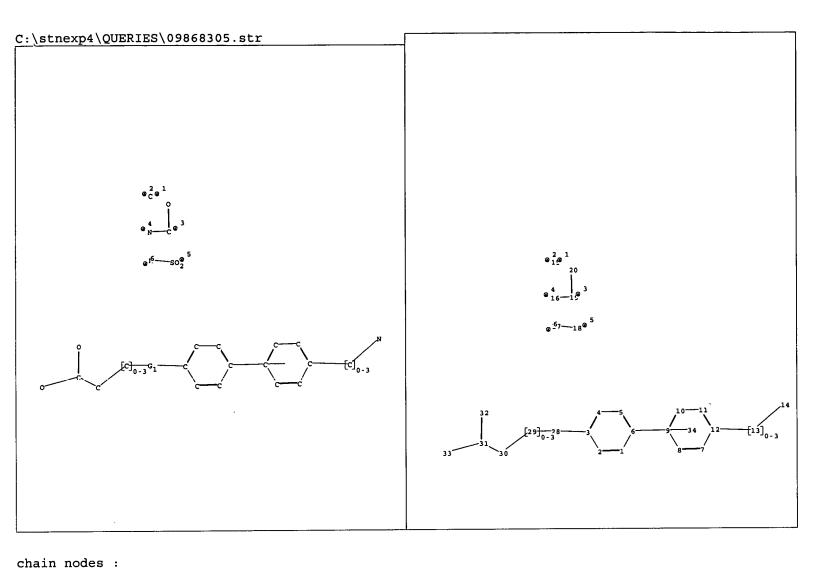
```
chain nodes :
   1 2 3 4 5 6 7
                                                 15
                                                     16 26 41 46
                            10
                                11
                                    12
                                         13
                                             14
ring nodes : 27 28 29 30 31 32
                                             37
                            33
                                 34
                                     35
                                         36
ring/chain nodes :
    8 42
chain bonds :
    1-2 1-3 1-4 4-5 4-6 5-26 6-7 7-8 7-46 9-11 12-13 13-14 15-16 26-27 37-41
    41-42
ring bonds :
    27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
exact/norm bonds :
   1-2 1-3 4-6 5-26 6-7 7-46 12-13 13-14 15-16 26-27 41-42
exact bonds :
    1-4 4-5 7-8 9-11 37-41
normalized bonds:
    27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
G1: [*1-*2], [*3-*4], [*5-*6], [*7-*8]
Match level :
            2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
    1:CLASS
    11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 26:CLASS 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 33:Atom 33:Atom 36:Atom 37:Atom 38:Atom
```

41:CLASS 42:CLASS 45:CLASS 46:CLASS

```
C:\Program Files\Stnexp\queries\09868305.str
```

```
chain nodes :
                         10
                             11
                                 12
                                     13
                                        14
                                            15
                                                16 26 41 46 48
   1 2 3 4 5 6 7
ring nodes : 27 28 29 30 31 32
                                 35
                                        37
                         33
                             34
                                     36
                                            38
ring/chain nodes :
   8 42
chain bonds:
   1-2 1-3 1-4 4-5 4-6 5-26 6-7 6-48 7-8 7-46 9-11 12-13 13-14 15-16 26-27
   37-41 41-42
ring bonds :
   27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
exact/norm bonds :
   1-2 1-3 4-6 5-26 6-7 6-48 7-8 7-46 12-13 13-14 15-16 26-27 41-42
exact bonds :
   1-4 4-5 9-11 37-41
normalized bonds :
   27-28 27-32 28-29 29-30 30-31 31-32 33-34 33-38 34-35 35-36 36-37 37-38
G1: [*1-*2], [*3-*4], [*5-*6], [*7-*8]
Match level :
           2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
   1:CLASS
            12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 26:CLASS 27:Atom 28:Atom
   11:CLASS
   29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom
```

41:CLASS 42:CLASS 45:CLASS 46:CLASS 48:CLASS



```
13 15 16 17 18 19 20 28 29 30 31 32 33
ring nodes :
   1 2 3 4 5 6 7 8 9 10 11 12
ring/chain nodes :
   14
chain bonds :
   3-28 12-13 13-14 16-19 17-18 19-20 28-29 29-30 30-31 31-32 31-33
ring bonds :
   1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
   3-28 13-14 16-19 17-18 19-20 28-29 31-32 31-33
exact bonds :
   12-13 29-30 30-31
normalized bonds :
   1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
G1: [*1-*2], [*3-*4], [*5-*6]
```

28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

Match level :